In the Claims

[Previously Amended] Integrated circuitry comprising:

a monolithic semiconductive substrate;

a plurality of field effect transistors formed using the monolithic semiconductive substrate and comprising a plurality of electrical contacts including a plurality of gate contacts and a plurality of power contacts including source contacts and drain contacts, wherein the field effect transistors are coupled in parallel with one another to form a power semiconductor switching device and wherein respective ones of the power contacts of the field effect transistors are coupled in common with one another; and

auxiliary circuitry formed using the monolithic semiconductive substrate and configured to couple with at least one of the electrical contacts of the power field effect transistors.

- 2. [Original] The circuitry of claim 1 wherein the field effect transistors comprise planar field effect transistors.
- 3. [Original] The circuitry of claim 1 wherein the auxiliary circuitry comprises a gate driver amplifier configured to provide a control signal to the electrical contacts of the field effect transistors comprising the gate contacts.



- 4. [Original] The circuitry of claim 1 wherein the auxiliary circuitry comprises a power converter controller configured to provide a control signal to the electrical contacts of the field effect transistors comprising the gate contacts.
- 5. (Previously Amended) The circuitry of claim 1 wherein the gate contacts are coupled in common with one another.
- 6. [Original] The circuitry of claim 1 wherein the auxiliary circuitry comprises an application specific integrated circuit.
 - 7. [Original] The circuitry of claim 1 wherein the auxiliary circuitry comprises a zero-current switching/timing circuit.
 - 8. [Original] The circuitry of claim 1 wherein the auxiliary circuitry comprises a load protection circuit.
 - 9. [Original] The circuitry of claim 1 wherein the auxiliary circuitry comprises an active snubber circuit.
 - 10. [Original] The circuitry of claim 1 wherein the power semiconductor switching device and the auxiliary circuitry are formed upon a die.

- 11. [Original] The circuitry of claim 1 wherein the field effect transistors comprise MOSFET devices.
 - 12. [Amended] A method of forming a power transistor comprising: providing a monolithic semiconductive substrate having a surface;

forming a power field effect transistor <u>comprising a plurality of planar field effect</u> transistors electrically coupled in <u>parallel</u> using the monolithic substrate and having a source contact and a drain contact adjacent to the surface, <u>wherein the power field effect</u> transistor is configured to operably conduct power currents; and

forming auxiliary circuitry using the monolithic semiconductive substrate, the forming comprising coupling the auxiliary circuitry with at least one contact of the power field effect transistor.

- 13. [Original] The method of claim 12 wherein providing comprises providing the substrate comprising a semiconductor die.
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- 15. [Original] The method of claim 12 wherein the forming auxiliary circuitry comprises forming a gate driver amplifier configured to provide a control signal to a gate contact of the power field effect transistor.





- 16. [Original] The method of claim 12 wherein the forming auxiliary circuitry comprises forming a power converter controller configured to provide a control signal to a gate contact of the power field effect transistor.
- 17. [Original] The method of claim 12 wherein the forming auxiliary circuitry comprises forming the auxiliary circuitry comprising application specific integrated circuitry.



- 18. [Original] The method of claim 12 wherein the formings individually comprise forming the power field effect transistor and the auxiliary circuitry comprising CMOS devices.
- 19. [Original] The method of claim 12 wherein the forming auxiliary circuitry comprises forming the auxiliary circuitry comprising zero-current switching\timing circuitry.
- 20. [Original] The method of claim 12 wherein the forming auxiliary circuitry comprises forming the auxiliary circuitry comprising active snubber circuitry.
- 21. [Original] The method of claim 12 wherein the forming auxiliary circuitry comprises forming the auxiliary circuitry comprising load protection circuitry.
- 22. [Original] The method of claim 12 wherein the forming the power field effect transistor comprises forming a plurality of MOSFET devices.

- 23. [Previously Added] The circuitry of claim 1 wherein the commonly-coupled power contacts of the field effect transistors comprise the source contacts commonly-coupled with one another and the drain contacts commonly-coupled with one another.
- 24. [Previously Added] The circuitry of claim 23 wherein the commonly-coupled source contacts are provided at a first common voltage and the commonly-coupled drain contacts are provided at a second common voltage different than the first voltage.



- 25. [Previously Added] The circuitry of claim 23 wherein the commonly-coupled source contacts are coupled at a first common node and the commonly-coupled drain contacts are coupled at a second common node.
- 26. [Previously Added] The circuitry of claim 1 wherein the power semiconductor switching device is configured to operably conduct power currents in excess of 1 Ampere.
- 27. [Amended] The method of claim 12 wherein the forming the power field effect transistor comprises forming a the plurality of planar field effect transistors including source regions and drain regions adjacent to the surface.
- 28. [Previously Added] The method of claim 12 wherein the forming the power field effect transistor comprises configuring the power field effect transistor to operably conduct power currents in excess of 1 Ampere.

- 29. [New] The circuitry of claim 1 wherein the field effect transistors comprise 5,000, or more, transistors coupled in parallel to form the power semiconductor switching device.
- 30. [New] The circuitry of claim 1 wherein the field effect transistors comprise a common transistor type.



- 31. [New] The circuitry of claim 1 wherein the field effect transistors comprise only n-channel devices.
- 32. [New] The circuitry of claim 1 wherein the field effect transistors of the power semiconductor switching device are configured to operably conduct power currents in excess of 20 Amperes.
- 33. [New] The method of claim 12 wherein the planar field effect transistors comprise 5,000, or more, transistors coupled in parallel to form the power semiconductor switching device.
- 34. [New] The method of claim 12 wherein the planar field effect transistors comprise a common transistor type.

35. [New] The method of claim 12 wherein the planar field effect transistors comprise only n-channel devices.



36. [New] The method of claim 12 wherein the forming the power field effect transistor comprises configuring the power field effect transistor to operably conduct power currents in excess of 20 Amperes.